

Title (en)

Driver condition detecting device, in-vehicle alarm system and drive assistance system

Title (de)

Fahrerzustandserkennungsvorrichtung, Fahrzeugalarmsystem und Fahrhilfssystem

Title (fr)

Dispositif de détection de condition de conducteur, système d'alarme embarqué et système d'assistance de conduite

Publication

**EP 2082937 A1 20090729 (EN)**

Application

**EP 09004776 A 20060502**

Priority

- EP 06009068 A 20060502
- JP 2005140255 A 20050512
- JP 2005237893 A 20050818
- JP 2006005330 A 20060112

Abstract (en)

When there is a preceding vehicle in a traveling direction of a subject vehicle, an ECU (100) computes a driver condition coefficient (K) that represents degree of change in the size of an image of the preceding vehicle as viewed from the driver is computed. The driving condition of the driver is detected from this driver condition coefficient (K) and used to provide an alarm indicative of the driving condition and to control vehicle travel condition.

IPC 8 full level

**B60K 31/00** (2006.01); **B60R 21/00** (2006.01); **B60T 7/12** (2006.01); **B60W 10/04** (2006.01); **B60W 10/06** (2006.01); **B60W 10/18** (2006.01); **B60W 10/184** (2012.01); **B60W 30/00** (2006.01); **B60W 30/08** (2012.01); **B60W 30/16** (2006.01); **B60W 40/02** (2006.01); **B60W 40/08** (2006.01); **B60W 50/14** (2012.01); **B60W 50/16** (2012.01); **F02D 29/02** (2006.01); **G08G 1/16** (2006.01)

CPC (source: EP KR US)

**B60K 28/066** (2013.01 - EP KR US); **B60K 31/00** (2013.01 - KR); **B60R 21/00** (2013.01 - KR); **B60T 7/14** (2013.01 - EP KR US); **B60T 7/22** (2013.01 - EP KR US); **B60T 17/18** (2013.01 - EP KR US); **B60W 10/06** (2013.01 - EP KR US); **B60W 10/184** (2013.01 - EP KR US); **B60W 40/08** (2013.01 - EP KR US); **B60W 40/09** (2013.01 - KR); **B60T 2201/022** (2013.01 - EP KR US); **B60W 40/09** (2013.01 - EP US); **B60W 2540/221** (2020.02 - KR); **B60W 2540/229** (2020.02 - KR); **B60W 2554/801** (2020.02 - EP KR US)

Citation (applicant)

- JP 2002264687 A 20020918 - NISSAN MOTOR
- JP 2002219968 A 20020806 - NISSAN MOTOR
- US 5642093 A 19970624 - KINOSHITA MASAHIRO [JP], et al
- JP H08203000 A 19960809 - FUJI HEAVY IND LTD

Citation (search report)

- [X] JP 2002367100 A 20021220 - NISSAN MOTOR
- [A] US 4257703 A 19810324 - GOODRICH GEORGE W
- [A] US 5642093 A 19970624 - KINOSHITA MASAHIRO [JP], et al
- [A] JP H05162596 A 19930629 - TOYOTA MOTOR CORP
- [A] JP 2002219968 A 20020806 - NISSAN MOTOR
- [A] DE 3803916 A1 19890817 - MESSERSCHMITT BOELKOW BLOHM [DE]

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 1721800 A2 20061115; EP 1721800 A3 20080312; EP 1721800 B1 20091021**; CN 1862227 A 20061115; CN 1862227 B 20140827; DE 602006009869 D1 20091203; EP 2082937 A1 20090729; EP 2082937 B1 20111123; EP 2085281 A1 20090805; EP 2085281 B1 20120620; EP 2277756 A2 20110126; EP 2277756 A3 20110216; EP 2277756 B1 20120822; JP 2007076632 A 20070329; JP 4466571 B2 20100526; KR 100773982 B1 20071108; KR 20060117244 A 20061116; US 2007021876 A1 20070125; US 7769498 B2 20100803

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**EP 06009068 A 20060502**; CN 200610082703 A 20060512; DE 602006009869 T 20060502; EP 09004776 A 20060502; EP 09004777 A 20060502; EP 10190030 A 20060502; JP 2006005330 A 20060112; KR 20060042686 A 20060511; US 41729306 A 20060502